In the Claims

1. (currently amended) An ink jet ink or ink jet recording material comprising at least one compound selected from the group consisting of

a) the dialkyl hydroxylamine stabilizers[[,]] and

b) the nitrone stabilizers ~~and~~

~~c) the amine oxide stabilizers~~

where the dialkyl hydroxylamine stabilizers are of the formula

R_1R_2N-OH

where

R_1 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_1 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbons atoms, halogen, cyano, E_1O-, E_1CO-, E_1COO-, E_1S-, E_1SO-, E_1SO_2-, -NH_2, -NHE_1, -NE_1E_2, -$PO(OE_1)(OE_2)$ or -$OPO(OE_1)(OE_2)$ groups;

R_2 is hydrogen or independently has the same meaning as R_1, where at least one of R_1 and R_2 contains a hydrogen alpha to the -NOH moiety; and

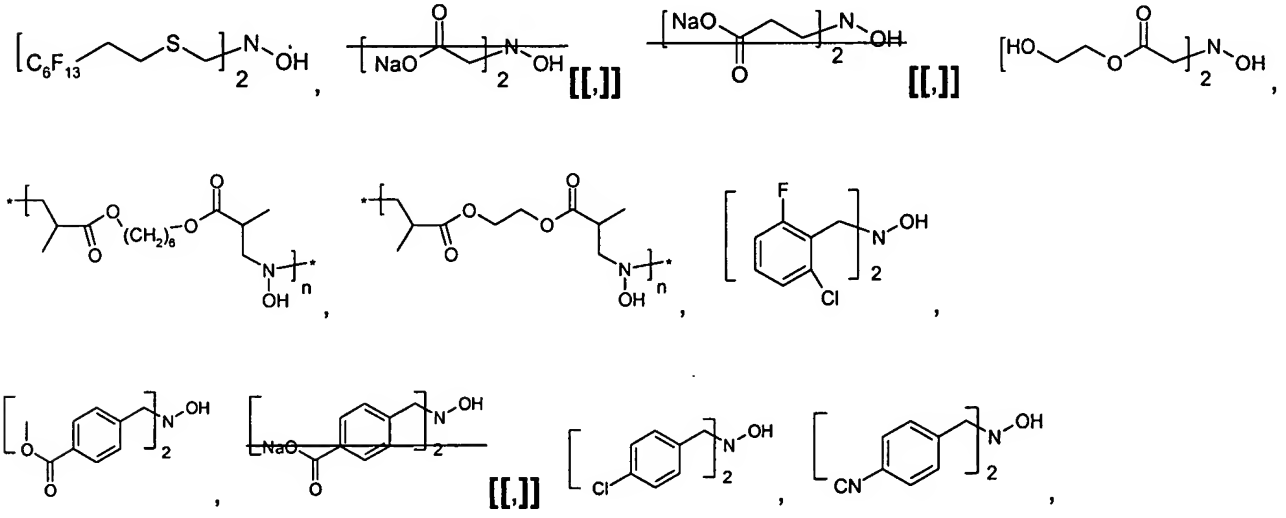
E_1 and E_2 independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E_1 and E_2 independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

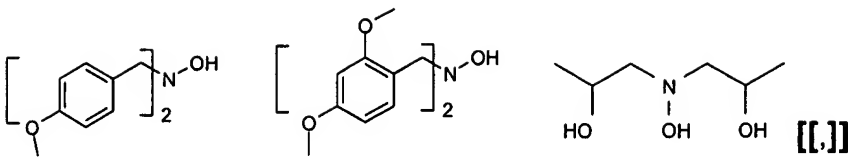
with the proviso that diethyl hydroxylamine is excluded.

2. (original) An ink jet ink or ink jet recording material according to claim **1** which comprises at least one compound selected from the group consisting of the dialkyl hydroxylamine stabilizers.

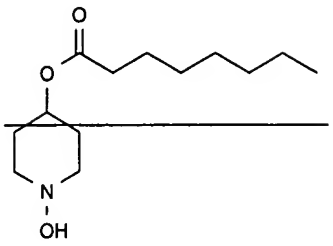
3. (canceled)

4. (currently amended) An ink jet ink or ink jet recording material according to claim **2** where the dialkyl hydroxylamine stabilizers are selected from the group consisting of N,N-dibenzylhydroxylamine, N,N-dimethylhydroxylamine, ~~N,N-diethylhydroxylamine~~**[[,]]** N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-bis(2-carboxyethyl)hydroxylamine, N,N-bis(benzylthiomethyl)hydroxylamine, N,N-dioctylhydroxylamine, N,N-dilaurylhydroxylamine, N,N-didodecylhydroxylamine, N,N-ditetradecylhydroxylamine, N,N-dihexadecylhydroxylamine, N,N-dioctadecylhydroxylamine, N-hexadecyl-N-tetradecylhydroxylamine, N-hexadecyl-N-heptadecylhydroxylamine, N-hexadecyl-N-octadecylhydroxylamine, N-heptadecyl-N-octadecylhydroxylamine, N-methyl-N-octadecylhydroxylamine, N,N-di(hydrogenated tallow)hydroxylamine,

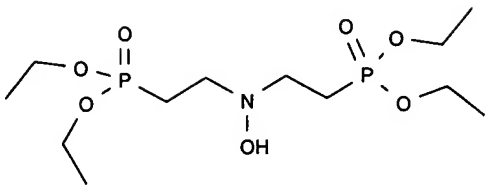




[[,]]



and

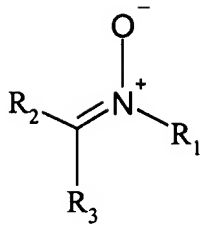


where n = 2 to 200.

5. (currently amended) An ink jet ink or ink jet recording material according to claim **2** where the dialkyl hydroxylamine stabilizers are ~~N,N-diethylhydroxylamine~~**[[,]]** N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-dibenzylhydroxylamine or N,N-di(hydrogenated tallow)hydroxylamine.

6. (original) An ink jet ink or ink jet recording material according to claim **1** which comprises at least one compound selected from the group consisting of the nitrone stabilizers.

7. (currently amended) An ink jet ink or ink jet recording material according to claim **6** where the nitrone stabilizers are of the formula



wherein

R_1 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_1 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbon atoms, halogen, cyano, E_1O-, E_1CO-, M^+O^-CO-, E_1OCO-, E_1COO-, E_1S-, E_1SO-, E_1SO_2-, $-NH_2$, $-NHE_1$, $-NE_1E_2$, $-PO(OE_1)(OE_2)$ or $-OPO(OE_1)(OE_2)$ groups;

R_2 is hydrogen or independently has the same meaning as R_1; or

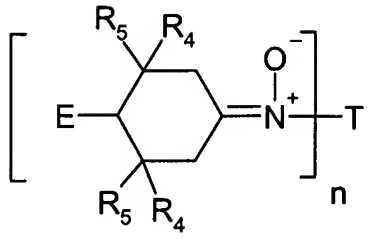
R_1 and R_2 together form a C_{2-12}heterocyclic ring which is unsubstituted or is substituted by one to three three alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbon atoms, halogen, cyano, E_1O-, E_1CO-, M^+O^-CO-, E_1OCO-, E_1COO-, E_1S-, E_1SO-, E_1SO_2-, $-NH_2$, $-NHE_1$, $-NE_1E_2$, $-PO(OE_1)(OE_2)$ or $-OPO(OE_1)(OE_2)$ groups; or where said C_{2-12}heterocyclic ring is interrupted by one to three -O-, $-NE_1$-, -CO-, $-CONE_1$-, -S-, -SO-, $-SO_2$-, -COO-, $-PO_3$- or $-PO_4E_1$ groups; or where said heterocyclic ring is both substituted and interrupted by said groups;

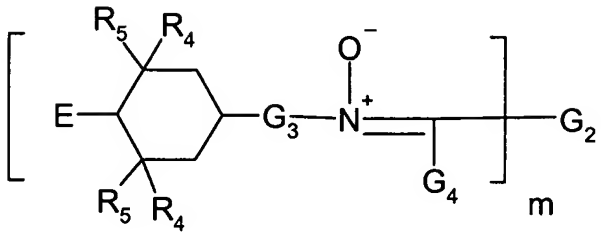
M^+ is a mono-, di- or tri-valent metal cation;

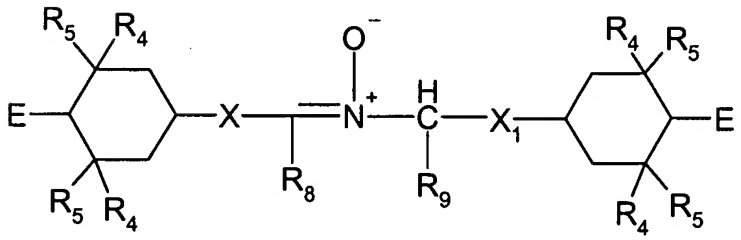
E_1 and E_2 independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E_1 and E_2 independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

R_3 independently has the same meaning as R_1;

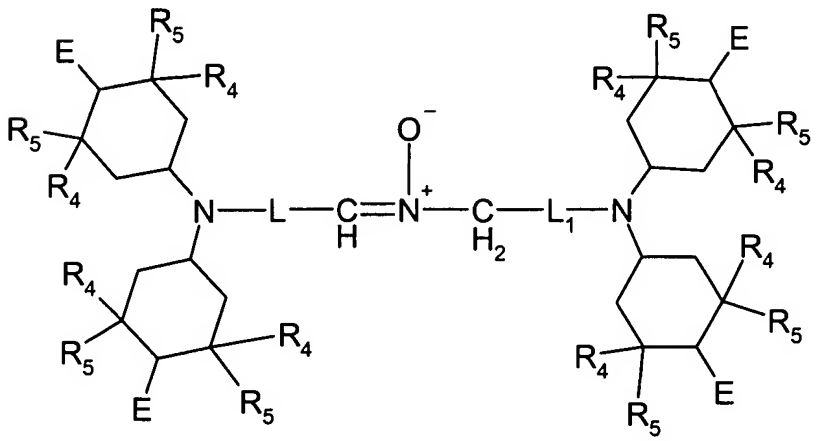
or the nitrones are of the formula







and



wherein

E is hydrogen, oxyl, hydroxyl, alkyl of 1 to 18 carbon atoms, alkenyl of 3 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, hydroxyalkyl of 2 to 6 carbon atoms, alkoxyalkyl of 2 to 20 carbon atoms, alkanoyl of 1 to 18 carbon atoms, alkoxy of 1 to 18 carbon atoms, cycloalkoxy of 5 to 12 carbon atoms, aryloxy of 6 to 10 carbon atoms, hydroxyalkoxy of 2 to 6 carbon atoms, alkoxyalkoxy of 2 to 20 carbon atoms, aralkoxy of 7 to 15 carbon atoms or a bicyclo or tricycloaliphatic oxy radical of 7 to 12 carbon atoms,

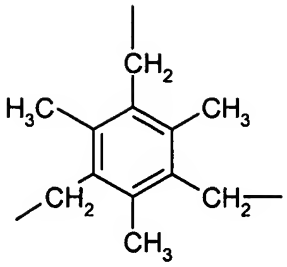
R_4 and R_5 are independently alkyl of 1 to 4 carbon atoms or together R_3 and R_4 are pentamethylene,

n is 1, 2, 3 or 4,

when n is 1, T is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, aralkyl of 7 to 9 carbon atoms or aralkyl of 7 to 9 carbon atoms substituted by alkyl of 1 to 4 carbon atoms or by one or two halogen atoms, said alkyl interrupted by one or more oxygen atoms, cyanoethyl, alkenyl of 3 to 8 carbon atoms, alkoxycarbonylalkyl of 4 to 36 carbon atoms where alkyl is of 1 to 4 carbon atoms,

when n is 2, T is alkylene of 2 to 12 carbon atoms, arylene of 6 to 10 carbon atoms, xylylene, -$CH_2CHOHCH_2$-, -$CH_2CHOHCH_2$-O-G_1-O-$CH_2CHOHCH_2$-, -CH_2-phenylene-COO-G_1-OCO-phenylene-CH_2- or -CH_2-phenylene-CH_2-OCO-G_1-COO-CH_2-phenylene-CH_2-,

G_1 is alkylene of 2 to 12 carbon atoms, arylene of 6 to 10 carbon atoms or cycloalkylene of 6 to 12 carbon atoms,

when n is 3, T is alkanetriyl of 3 to 6 carbon atoms, or is  , and

when n is 4, T is alkanetetrayl of 4 to 6 carbon atoms,

G_3 is a direct bond, -OCO-$(C_qH_{2q})_q$-, -OCO-phenylene-CH_2-, -NG_4-CO-$(C_qH2_q)_q$- or -NG_4-CO-phenylene-CH_2- where q is 1 to 12,

G_4 is hydrogen, alkyl of 1 to 8 carbon atoms or phenyl,

m is 1 or 2,

when m is 1, G_2 is alkyl of 1 to 36 carbon atoms, said alkyl interrupted by one or more oxygen atoms, cyanomethyl, cycloalkyl of 6 to 8 carbon atoms, alkenyl of 2 to 8 carbon atoms, aryl of 6 to 10 carbon atoms, or aryl of 6 to 10 carbon atoms substituted by alkyl of 1 to 4 carbon atoms or by one or two halogen atoms, or alkoxycarbonylalkyl of 4 to 36 carbon atoms where alkyl is of 1 to 4 carbon atoms, and

when m is 2, G_2 is alkylene of 2 to 12 carbon atoms or arylene of 6 to 10 carbon atoms,

X and X_1 are independently Q-G, where Q is -O-, -COO-, -OCO- or –NR_6-,

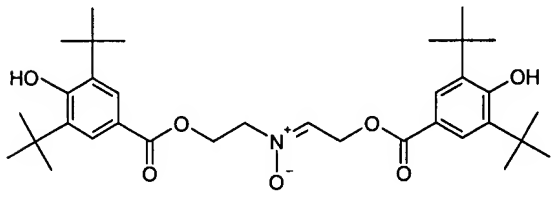
R_6 is hydrogen, alkyl of 1 to 8 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, cyanoethyl, aryl of 6 to 10 carbon atoms, aralkyl of 7 to 15 carbon atoms or -CH_2CHR_7OH, and R_7 is hydrogen, methyl or phenyl, with Q being attached to the piperidinyl ring,

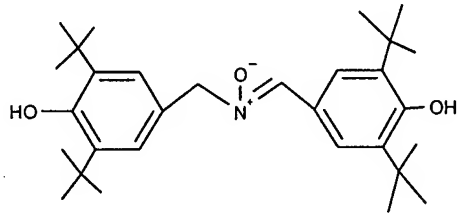
G is alkylene of 1 to 4 carbon atoms, arylene of 6 to 10 carbon atoms or arylene-alkylene of 7 to 15 carbon atoms,

R_8 and R_9 are independently hydrogen or alkyl of 1 to 8 carbon atoms, and

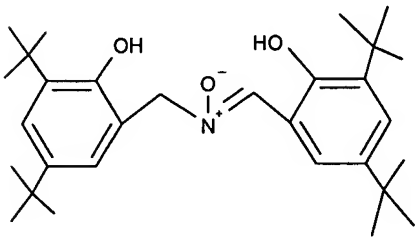
L and L_1 are independently -CO-alkylene of 2 to 5 carbon atoms or -CO-phenylene-with the carbonyl group being attached to the N atom.

8. (original) An ink jet ink or ink jet recording material according to claim **6** where the nitrone stabilizers are selected from the group consisting of N-benzyl-α-phenylnitrone, N-ethyl-α-methylnitrone, N-octyl-α-heptylnitrone, N-lauryl-α-undecylnitrone, N-tetradecyl-α-tridcylnitrone, N-hexadecyl-α-pentadecylnitrone, N-octadecyl-α-heptadecylnitrone, N-hexadecyl-α-heptadecylnitrone, N-ocatadecyl-α-pentadecylnitrone, N-heptadecyl-α-heptadecylnitrone, N-octadecyl-α-hexadecylnitrone, N-methyl-α-heptadecylnitrone, the nitrone derived from N,N-di(hydrogenated tallow)hydroxylamine, N-benzyl-α-methylnitrone, N-butyl-α-propylnitrone,





and



9. (original) An ink jet ink or ink jet recording material according to claim **6** where the nitrone stabilizers are N-benzyl-α-phenylnitrone or N-ethyl-α-methylnitrone.

10. (original) An ink jet ink or ink jet recording material according to claim **7** in which E is hydrogen, hydroxyl, alkyl of 1 to 12 carbon atoms, alkyl, benzyl, alkanoyl of 2 to 4 carbon atoms, alkoxy of 1 to

12 carbon atoms, cyclohexyloxy or alpha-methylbenzyloxy.

11. (original) An ink jet ink or ink jet recording material according to claim **7** in which

R_4 and R_5 are each methyl,

when n is 1, T is hydrogen, alkyl of 1 to 18 carbon atoms, benzyl or alkoxycarbonylalkyl of 4 to 18 carbon atoms where the alkyl is of 2 to 4 carbon atoms,

when n is 2, T is alkylene of 2 to 8 carbon atoms or is p-xylylene,

when n is 3, T is glyceryl,

when n is 4, T is pentaerythrityl,

G_3 is a direct bond,

G_4 is hydrogen,

when m is 1, G_2 is alkyl of 1 to 12 carbon atoms or phenyl,

when m is 2, G_2 is alkylene of 3 to 8 carbon atoms or phenylene,

X and X_1 are the same,

R_8 and R_9 are each hydrogen, and

L and L_1 are the same and are -CO-CH_2- or -CO-phenylene-.

12. (original) An ink jet ink or ink jet recording material according to claim **6** where the nitrone stabilizers are selected from the group consisting of α-phenyl-N-(2,2,6,6-tetramethylpiperidin-4-yl)nitrone, α-phenyl-N-(1,2,2,6,6-pentamethylpiperidin-4-yl)nitrone, α-phenyl-N-(1-cyclohexyloxy-

2,2,6,6-tetramethylpiperidin-4yl)nitrone, α-phenyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4yl)nitrone, α,α'-p-phenylene-N,N'-bis[(2,2,6,6-tetramethylpiperidin-4-yl)nitrone], N-benzyl-N-(1-cyclohexyloxy-2,2,6,6-tetramethylpiperidin-4-ylidene)amine-N -oxide, α-n-propyl-N-(1-cyclohexyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone, α-isopropyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone, α,α'-tetramethylene-N,N'-bis[(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone], α-n-propyl-N-(1-acetyl-2,2,6,6-tetramethylpiperidin-4-yl)nitrone and α-[4-(1-cyclohexyloxy-2,2,6,6-tetramethylpiperidin-4-yloxycarbonyl)-phenyl]-N-[4-(1-cyclohexyloxy-2,2,6,6-tetramethyl-piperidin-4-yloxycarbonyl)benzyl]nitrone.

13-18. (canceled)

19. (currently amended) An ink jet ink or ink jet recording material according to claim **1** comprising

at least one compound selected from the group consisting of a) the dialkyl hydroxylamine stabilizers and at least one compound selected from the group consisting of b) the nitrone stabilizers ~~or~~

~~at least one compound selected from the group consisting of a) the dialkyl hydroxylamine stabilizers and at least one compound selected from the group consisting of c) the amine oxide stabilizers or~~

~~at least one compound selected from the group consisting of b) the nitrone stabilizers and at least one compound selected from the group consisting of c) the amine oxide stabilizers~~.

20. (currently amended) An ink jet ink according to claim **1** which comprises about 0.01 to about 30% by weight of at least one compound selected from the group consisting of components a)**[[,]]** and b) ~~and c)~~, based on the weight of the ink jet ink.

21. (currently amended) An ink jet recording material according to claim **1** which comprises about 1 to about 10000 mg/m^2 of at least one compound selected from the group consisting of components a)**[[,]]** and b) ~~and c)~~.

22. (original) An ink jet ink or ink jet recording material according to claim **1** further comprising a UV absorber selected from the group consisting of the hydroxyphenylbenzotriazoles, the tris-aryl-s-triazines, the benzophenones, the α-cyanoacrylates, the oxanilides, the benzoxazinones, the benzoates and the α-alkyl cinnamates.

23. (original) An ink jet ink or ink jet recording material according to claim **1** further comprising a UV absorber selected from the group consisting of the hydroxyphenylbenzotriazoles, the tris-aryl-s-triazines and the benzophenones.

24. (original) An ink jet ink or ink jet recording material according to claim **1** further comprising a UV absorber selected from the group consisting of

5-chloro-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
2-(2-hydroxy-3,5-di-tert-amylphenyl)-2H-benzotriazole;
2-(2-hydroxy-3,5-di-α-cumylphenyl)-2H-benzotriazole;
2-(2-hydroxy-3-α-cumyl-5-tert-octylphenyl)-2H-benzotriazole;
2-(2-hydroxy-5-tert-octylphenyl)-2H-benzotriazole;
2-(2-hydroxy-5-methylphenyl)-2H-benzotriazole;
2-(2-hydroxy-3-tert-butyl-5-methylphenyl)-2H-benzotriazole-5-sulfonic acid, sodium salt;
3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamic acid;
12-hydroxy-3,6,9-trioxadodecyl 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamate;
octyl 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamate;
2-(3-t-butyl-2-hydroxy-5-(2-(ω-hydroxy-octa-(ethyleneoxy)carbonyl-ethyl)-phenyl)-2H-benzotriazole;

4,6-bis(2,4-dimethylphenyl)-2-(4-octyloxy-2-hydroxyphenyl)-s-triazine;

2,4-bis(2-hydroxy-4-butyloxyphenyl)-6-(2,4-bis-butyloxyphenyl)-1,3,5-triazine;

2-[4-(dodecyloxy/tridecyloxy-2-hydroxypropoxy)-2-hydroxyphenyl]-4,6-bis(2,4-dimethylphenyl)1,3,5-triazine;

the reaction product of tris(2,4-dihydroxyphenyl)-1,3,5-triazine with the mixture of α-chloropropionic esters (made from isomer mixture of C_7-C_9alcohols);

2,4-dihydroxybenzophenone;

2,2',4,4'-tetrahydroxy-5,5'-disulfobenzophenone, disodium salt;

2-hydroxy-4-octyloxybenzophenone;

2-hydroxy-4-dodecyloxybenzophenone;

2,4-dihydroxybenzophenone-5-sulfonic acid and salts thereof;

2-hydroxy-4-methoxybenzophenone-5-sulfonic acid and salts thereof;

2,2'-dihydroxy-4,4'dimethoxybenzophenone-5,5'-disodium sulfonate;

3-(2H-benzotriazol-2-yl)-4-hydroxy-5-sec-butylbenzenesulfonic acid, sodium salt; and

2-(2'-hydroxy-3'-tert-butyl-5'-polyglycolpropionate-phenyl)benzotriazole.

25. (currently amended) An ink jet system, comprising a recording material and at least one colored ink to be applied to the recording material by means of an ink jet nozzle, wherein at least either the recording material or at least one colored ink comprises at least one compound selected from the group consisting of

a) the dialkyl hydroxylamine stabilizers**[[,]]** and

b) the nitrone stabilizers ~~and~~

~~c) the amine oxide stabilizers~~

where the dialkyl hydroxylamine stabilizers are of the formula

R_1R_2N-OH

where

R_1 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_1 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbons atoms, halogen, cyano, E_1O-, E_1CO-, E_1COO-, E_1S-, E_1SO-, E_1SO_2-, $-NH_2$, $-NHE_1$, $-NE_1E_2$, $-PO(OE_1)(OE_2)$ or $-OPO(OE_1)(OE_2)$ groups;

R_2 is hydrogen or independently has the same meaning as R_1, where at least one of R_1 and R_2 contains a hydrogen alpha to the -NOH moiety; and

E_1 and E_2 independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E_1 and E_2 independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

with the proviso that diethyl hydroxylamine is excluded.

26. (currently amended) A process for stabilizing ink jet prints which comprises applying to a recording material for ink jet printing an ink composition comprising a water soluble dye or a solution of a dye in an organic solvent and at least one compound selected from the group consisting of

a) the dialkyl hydroxylamine stabilizers**[[,]]** and

b) the nitrone stabilizers and

~~c) the amine oxide stabilizers and~~

drying said recording material

where the dialkyl hydroxylamine stabilizers are of the formula

$$R_1R_2N\text{-}OH$$

where

R_1 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_1 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbons atoms, halogen, cyano, E_1O-, E_1CO-, E_1COO-, E_1S-, E_1SO-, E_1SO_2-, $-NH_2$, $-NHE_1$, $-NE_1E_2$, $-PO(OE_1)(OE_2)$ or $-OPO(OE_1)(OE_2)$ groups;

R_2 is hydrogen or independently has the same meaning as R_1, where at least one of R_1 and R_2 contains a hydrogen alpha to the -NOH moiety; and

E_1 and E_2 independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E_1 and E_2 independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

with the proviso that diethyl hydroxylamine is excluded.

27. (currently amended) A process for stabilizing ink jet prints which comprises applying to a recording material for ink jet printing a casting or coating dispersion or an aqueous or organic solution comprising at least one compound selected from the group consisting of

a) the dialkyl hydroxylamine stabilizers**[[,]]** and

b) the nitrone stabilizers and

~~c) the amine oxide stabilizers and~~

further applying either an ink composition comprising a water soluble dye or a solution of a dye in an organic solvent; or an ink composition comprising a water soluble dye or a solution of a dye in an organic solvent and at least one compound selected from the group consisting of components a)**[[,]]** and b) ~~and c)~~ and drying said recording material

where the dialkyl hydroxylamine stabilizers are of the formula

R_1R_2N-OH

where

R_1 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_1 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbons atoms, halogen, cyano, E_1O-, E_1CO-, E_1COO-, E_1S-, E_1SO-, E_1SO_2-, -NH_2, -NHE_1, -NE_1E_2, -$PO(OE_1)(OE_2)$ or -$OPO(OE_1)(OE_2)$ groups;

R_2 is hydrogen or independently has the same meaning as R_1, where at least one of R_1 and R_2 contains a hydrogen alpha to the -NOH moiety; and

E_1 and E_2 independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E_1 and E_2 independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

with the proviso that diethyl hydroxylamine is excluded.